

TOP SECRET

1947

PHOTOGRAPHIC INTERPRETATION REPORT



# EMBA MISSILE TEST CENTER USSR

SEPTEMBER 1965

COPY 4

19 PAGES

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TOP SECRET CHESS RUFF EMBA
MISSILE TEST CENTER
USSR SEPTÉMBER 1965 25X1 TOP SECRET CHESS RUFF

#### INTRODUCTION

This report presents at update of photo interpretation on the Emba Missile Test Center (Figures 1 and 2), since December 1963 as published in NPIC/R-191.64. March 1964. 1 Excellent-quality KH-7 photography of

provided our best look to date at the majority of the facilities of the test center (formerly designated Emba Missile-Associated Installation,

Emba was first identified on and has been covered on 14 subsequent missions. The first NPIC detailed report concerning this center was NPIC/R-159/63, 2/which was later updated by NPIC R-191 64, 1 This report covers the 9 missions since NPIC R-191 64 and provides a detailed description of the facilities from the larger scale, KH-7 photography

Table 1. Geographic Coordinates of Components of Emba Missile Test Center

Launch Area	48-31-05N	58-01-25E
Unidentified Support Area	48-30-40N	58-02-05E
Operational Support Area	48-42-30N	58-05-20E
Instrumentation Sites 1 & 2	48-33-35N	58-02-50E
Instrumentation Site 3	48-33-05N	58-03-10E
Instrumentation Site 5	48-28-35%	58-04-45E
Instrumentation Site 6	48-11-15N	58-16-55E
Instrumentation Site 7	47-55-20N	· 58-16-30E
Instrumentation Site 8	48-09-30N	57-30-00E
Instrumentation Site 9	48-27-20N	57-42-45E
Instrumentation Site 10	48-30-45N	57-58-10E
Electronics Site	48-36-15N	,58-06-55E
Support-Area A	48-46-00N	58-04-40E
Support Area B	48-34-30N	58-03-00E
Airfield	48-44-00N	58-03-00E
Clearest Strip	48-40-00N	1.58-00-00E
4		1

# LAUNCH-ASSOCIATED FACILITIES Launch Area

The Launch Area (Figures 3 and 4) at the Emba Missile Test Center is located approximately 14.5 nm southwest of the Operational Support Area and is road served from that area. The Launch Area is relatively heavily secured with double security fences approximately 170 feet apart, corner guard towers, and cleared strips between the fences and around the outer fence. The area remains unchanged from coverage of \_\_\_\_\_\_\_ but the larger scale of permits greater detail

to be discerned.

Observed within the area on (Figure 3) were a probable BAR LOCK radar, 5 electronics vans, unidentified pieces of electronics equipment, 2 probable communications vehicles, 2 van-mounted antennas, 1 associated generator van, and at least 50 unidentified vehicles/pieces (Figure 5) revealed of equipment. probable GANEF missile on a transporterlauncher approximately 20 feet in length, located in the center of the western launch pad (A-1). Another transporter-launcher was in the center of the eastern pad (A-2) but the presence of missiles could not be determined because of haze and obliquity. An unidentified vehicle/piece of equipment was located on each pad behind the transporter-launchers. At least 16 vehicles/pieces of equipment were observed on the hardstand in front of the control bunker, with at least 35 additional vehicles/pieces of equipment present with in the launch area.

The outer fence measures 1,980 by 1,390 feet, with the loop road pattern measuring 950-by 690 feet. The 2 launch pads measure approximately 90 by 85 feet, with an approximately 35-by 25-foot paved overrun on the forward inner corner. Mensuration on

when objects were present on the pads, gave an 820-foot (250-meter) separation between

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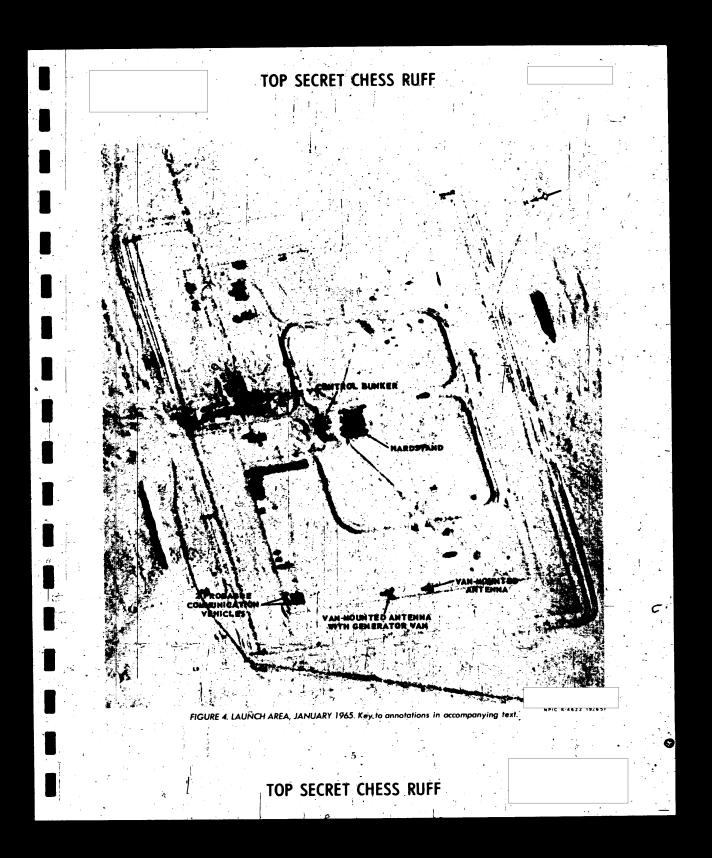
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objects on the pads, which would probably be the separation between launch points. The earthmounded control bunker, which is connected to each launch pad by a conduit, has a top nieasurement of 85 by 45 feet. Two entrances are visible on the north side and 2 unidentified objects are positioned on the top. Immediately south of this bunker there is a hardstand measuring approximately 145 by 110 feet which on contained at least 10 unidentified

vehicles pieces of equipment.

Key to annotations in Figure 4

Item No	Size :: * ft approx ;	Description
1	115 x 30	Flattrooted, 8-bay probable visibilities hicle shed
2	25 x-25	Flat-roofed, unidentified support
3	25 x 15	Flat-roofed, unidentified support
4 .	45 × 30°	"Flat rooteds (typical) security,"
5	$25 \times 20$	Possible pumphouse

#### **Checkout Area**

Key to annotations in Figure 6:

Item No	Size (ft approx)	Description (All are single story
1	35 x 30	Flat-roofed, typical security
$\frac{2}{3}$	80 x 60	Drive through building
3	50 x 35	Flat-roofed heatplant with adjacent stack
4	$20 \times 15$	Flat roof, unidentified function
5	20 x 15	Flat, roof, unidentified function

#### Unidentified Support Area

An unidentified support area (Figure 7) is located approximately 3.300 feet east-southeast of the Launch Area. This area was present on , the first coverage of and at that time was identified as a possible launch area. Two concrete hardstands are loichted in the southern part of the 1,080- by 620foot, double-fence secured area. There are guardtowers in the southeast and northwest corners. There are also a third possible fence and probable light towers between the 2 fences: Snow cover on precluded a readout of the hardstands. There is 1 centrally located, drive in bunker which may have been utilized as a control bunker if the area formerly was a launch area. The area is served only by unimproved trails from the launch area and the checkout area.

Also contained within the area are 4 mounds/ bunkers arranged in an east-west row and 3 underground entrances or bunkers. This area may presently have a storage function.

Photo coverage of revealed no significant change or activity since

#### **Operational Support Area**

The Operational Support Area (Figure 8)
has been enlarged since
A new, unidentified, fence-secured area is
under construction adjacent to the west side of
the area. To the north existing fences have been
extended to include an area containing 3 com-
pleted buildings. I building under construction,
an earth-walled basin measuring 160 by 160 feet
and, on over 175
vehicles pieces of equipment. One additional
handling building has also been added in the
original portion.
The unidentified area to the west, as seen
on could be either underground
liquid storage, building foundations or some
form of instrumentation under construction. The

could be either underground liquid storage, building foundations or some form of instrumentation under construction. The first evidence of this area appeared on Mission when preliminary clearing for the fenceline, 2 buildings, and a linear scar appeared. Coverage of revealed a system of open

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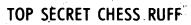


, FIGURE 5. LAUNCH AREA, MAY 1965.

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ditches, which began in the older operational support area at a probable pumphouse.

Coverage of Mission revealed 8 rectangular excavations approximately 125 by 50 feet along the ditch system.

these excavations had apparently been backfilled and 3 unidentified objects topped 5 of them.

A ditch line connecting 4 of the backfilled excavations continues west-northwest for approximately 2 nautical miles (nm) to a small, fenceenclosed area approximately .25 nm southeast of the airfield. Within this fenced area are a building approximately 20 by 15 feet, and a circular probable burn pit.

Key to annotations in Figure 8:

Item No	Size ft approx	Description all buildings single story unless otherwise noted
1	160 x 60	Gablé roofed, probable storage
2	95 x 15	Gable-roofed, possible storage
3	95 x 15	Gable-roofed, possible storage
4	160 x 60	Gable-roofed, probable storage
1.5	160 x 60	Gable-roofed, probable storage
6	.45 x 30	Flat-roofed, unidentified
7	30 x 25	Flat-roofed, unidentified
.8	175 x 80	Gable roofed, high center bay 175 x 50 feet, 2 shed roofed side shops 175 x 15 feet; drive through
9	25 × 25	Flat-roofed, probable pump- house
10	120 x 50	Gahle-roofed, probable drive- through high bay 120 x 25, shed-roofed shop section 120 x 25
11	115 x 50	Gable roofed. probable drive- through high bay 115 x 25, shed-roofed shop 115 x 25
12	80 x 50	Gable roofed, high bay 80 x 25, shed roofed shop 80 x 25
13	, 85 x 35	Flat roof
14	120 x 85	Building completed since Jan 65, gable-roofed, probable ve- hicle maintenance
15	420 x-85.	Building under construction
16	95 x 15	Gable roofed, unidentified
17	145 x 55	Gable-roofed, probable barracks
	* v.	

Item No	Size It approx	Description All buildings are single story) unless otherwise noted )
18 ; 19 :	(50 × 20 (50 × 45)	Building completed since Jan 65 Security building with 20 x 10 extension
20 ° 21	145 × 35 50 × 30	Gable-roofed, modified T-shape Gable-roofed
22	.90 x 40	T shaped, heatplant, stem 50 $\times$ 40

#### INSTRUMENTATION AND ELECTRONICS **FACILITIES**

#### Instrumentation Sites

The instrumentation pattern at Emba consists of at least 9 instrumentation sites in a typical spreading launch, or rangehead, instrumentation pattern. This pattern extends downrange generally south for approximately 35 nm. While the pattern is generally typical of rangehead instrumentation the extent of facilities at the majority of the sites is greater than that observed at the sites at the other missile test centers in the USSR and China.

At least 2 different types of sites can be identified, as well as a combination, at the Instrumentation Control Center, Instrumentation Site 2 (Figure 9), which contains both types of facilities. A 70- by 40-foot building with 4 antenna mounts or small domes on the roof is similar to Instrumentation Sites 5 and 10; and the four 20-foot diameter standard range instrumentation domes and the central 150- by 50foot control building are similar to the facilities at Instrumentation Sites 6, 7, 8, and 9. The relationship of these sites is discussed in NPIC/R-191/64.1/

Only Instrumentation Sites 1, 2, 3, 5, and 10 are covered on Also observed was the location of what was formerly believed to be Instrumentation Sites 4 and 111. These can now be seen to be junctions or bends in instrumentation cable lines. Instrumentation Sites 1 and 3 appear to be merely positions for mobile equipment.

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Photography of gives coverage of Instrumentation Sites 1, 2, 5, 9, and 10. No significant changes can be noted since

Key to annotations in Figure 9:

Item No	Size (ft approx)	Description (All buildings are single story unless otherwise noted
1	70 x 40	Gable-roofed, 4 antenhas elec- tronic mounts on roof
2	150 x 50	Gable-roofed, control building
3	100-x 30	Gable-roofed, unidentified
4	25 x 20	Flat roofed, unidentified
5	20 x 15	Flat-roofed, unidentified
6	50 x 30	Flat-roofed, unidentified
7	45 x 30	Flat-roofed
8	∘ 35 x 20 «	Flat-roofed, unidentified
9	90 x 30	Stepped, flat-roofed with adja- cent stack, heatplant



FIGURE 9. INSTRUMENTATION SITE 2. Key to annotations in accompanying text.

At least 15 vehicles pieces of equipment are parked along the front line of domes and buildings. 14 at the eastern end and 1 at the western. In addition 10 other unidentified vehicles pieces of equipment are visible within the site.

Instrumentation Sites 5 and 10 can be seen on to be similar and are positioned on either side of the instrumentation pattern. Each site consists of an approximately 70- by 40-foot building, with 4 antennas/mounts or small domes on the roof, and are apparently identical with a building in Instrumentation Site 2. Sites 5 and 10 are both apparently aligned on a parallel azimuth with the launch pads. The 4 antennas mounts or small domes on each building are on the side of the gable roof toward the center of the instrumentation pattern. Cable scars connect these sites with the next downrange sites and probably with Instrumentation Site 2.

#### **Electronics Sité**

The Emba Electronics Site (Figure 10), formerly called Near Space Tracking and Telemetry Receiving Site, has had no apparent change in facilities since

but the larger scale photography of

allows greater determination of facilities present within the site.

The single-fenced site is located on a hill mass approximately 6.5 nm northeast of the Launch Area and approximately 6.5 nm southeast of the Operational Support Area: The fence measures 1,210 by 1,055 feet.

The east west row of 6 earth-mounded radar/
telemetry antenna positions is occupied as seen
on with the 2 larger
outside mounds having larger antennas than the
inner 4. No specific antenna types can be identified. The azimuth of a perpendicular to a line
connecting the mounds approximately parallels
the azimuth of a line through the launch pads,
but is farther to the east.

Contained within the site as seen on Missions are approximately 30 vehicles/pieces of equipment.

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TOP SECRET CHESS RUFF

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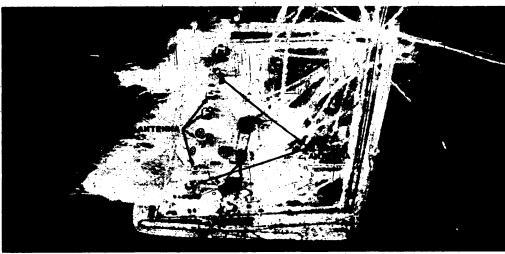


FIGURE 10. ELECTRONICS SITE.

NPIC K-4628 19'65)

#### Key to annotations in Figure 10:

Item No	Size (ft approx)	Description
1 6	65 x 60	Gable-roofed, electronics func-
2	60 x 45	Flat roofed, top mounted object approx 12 x 12, electronics function
3	65 x 60	Gable-roofed, electronics func- tion
4	35 x: 20	Gable-roofed, support building
5	30 x 20	Gable-roofed, security gatehouse

## ADMINISTRATIVE AND LOGISTICAL SUPPORT FACILITIES

## Support Area A

Located 4' nm south-southwest of Emba, Support Area A (Figure 11) is composed of an administration/housing section, a barracks/warehouse section, 2 motor pool/storage yards, 2 sets of rail spurs, 3 open storage, areas, and several additional buildings/structures...

ii.
New construction within Support Area A
since consists of
2 multistory administration/housing buildings,
completed by and
2 others under construction which were com-
pleted by Two motor
pools/storage yards are no longer present on
photography of Approximately
225 vehicles/pieces of equipment were located in
the motor pools/storage yards on
photography and at least 265 were present on
photography of Approximately 55
pieces of railroad equipment are located within
the area, and additional railroad equipment is
adjacent to the support area.

## Support Area B

Support Area B (Figure 12), located approximately 3 nm north-northeast of the Launch Area and 8 nm south-southwest of the Operational Support Area, on the larger scale photography of appears to be the remnants of former agricultural and con-

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struction areas and presently supplies quarters for personnel in the Emba installation. No apparent change in facilities has taken place since.

A road from the Emba Airfield runs past a cleared strip to a point just north of Support Area B, where it connects with the road between the Operational Support Area and Support Area B.

#### **Emba Airfield**

Just south of Support Area A and 6.5 nm



FIGURE 13. EMBA AIRFIELD.



FIGURE 14. CLÉARED STRIP.

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outhwest of Emba is the Emba Airfield (Figure 3). On good-quality photography of	orientation, as opposed to the northeast-southwest orientation of the Emba Airfield.	
the snow-cleared portion	Measurements obtained on	1
of the runway measures 10,750 by 670 feet.	give a maximum length of 13,220 feet; width of	1 .
probable HARE, 16 BEAGLE, 3 CAB, 1	1,045 feet, and a cleared strip resembling a parallel taxiway measuring 10,060 by 106 feet.	
COLT, and 14 FAGOT/FRESCO. On Mission	Two scars/ditches parallel the strip and taxiway	
017 are 1 HOOK, 4 HARE, 1 possible HARE, 3 BEAGLE, 20 FAGOT/FRESCO, 4 CAB,	and have a 2.660-foot separation; there is approximately 350 feet separation between the	
and 3 small straight-wing type. An instrument	strip and taxiway. This cleared strip was first	
anding system installation is positioned approxi- nately 1,800 feet northeast of the runway, and a	present on coverage of but because of snow was not apparent until coverage of Mis-	
round control approach system is located to the	sion On coverage of Mission	
north. All other facilities of the airfield remain	scraping or clearing was underway on the	
	main cleared strip. No change was noted and the	
A cleared strip (Figure 14) has been added	scraping was not completed by A road connecting the Emba Airfield	
ince and is located approximately	and Support Area B runs alongside the cleared	
.75 nm southwest of the Emba Airfield. It has n approximate north-northwest/south-southeast	strip.	
approximate north-northwest, south-southeast		:
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